

CLAIMS

1. A method comprising the steps of:

adding a voice noise power to an aggregate voice power such that a total of said voice noise power and said aggregate voice power is substantially equal to a voice power limit;

inserting a pre-determined amount of data noise after transmission of a data burst so as to maintain power consumed by data transmission at a desired level.

2. The method of claim 1 further comprising the step of increasing said desired level by a pre-determined amount during said data transmission.

3. The method of claim 1 further comprising the step of decreasing said desired level by a pre-determined amount during said data transmission.

4. The method of claim 1 further comprising the step of increasing said voice power limit by a pre-defined amount during said data transmission.

5. The method of claim 1 further comprising the step of decreasing said voice power limit by a pre-defined amount during said data transmission.

6. The method of claim 2 wherein said pre-determined amount is between approximately 0% and approximately 15% of said voice power limit.

7. The method of claim 3 wherein said pre-determined amount is between

2 approximately 0% and approximately 15% of said voice power limit.

8. The method of claim 4 wherein said pre-defined amount is between
2 approximately 0% and approximately 15% of said voice power limit.

9. The method of claim 5 wherein said pre-defined amount is between
2 approximately 0% and approximately 15% of said voice power limit.

10. The method of claim 1 wherein said step of adding said voice noise
power comprises a step of transmitting an orthogonally coded voice noise.

11. The method of claim 1 wherein said step of inserting said pre-
determined amount of said data noise comprises a step of transmitting an orthogonally
coded data noise.

12. The method of claim 1 wherein said step of adding said voice noise
2 power comprises a step of transmitting a PN coded voice noise.

13. The method of claim 1 wherein said step of inserting said pre-
2 determined amount of said data noise comprises a step of
transmitting a PN coded data noise.

14. A method comprising the steps of:
2 adding a voice noise power to an aggregate voice power such that a total of
said voice noise power and said aggregate voice power is substantially equal to a

4 voice power limit;

inserting a first amount of data noise after transmission of a data burst so as to

6 maintain a total data transmission power at a first level;

inserting a second amount of data noise following said first amount of data

8 noise so as to reduce a total data transmission power to a second level, wherein said
second level is less than said first level by a pre-determined amount.

15. The method of claim 14 wherein said pre-determined amount is between
2 approximately 0% and approximately 15% of said voice power limit.

16. The method of claim 14 further comprising the step of decreasing said
voice power limit by a pre-defined amount.

17. The method of claim 16 wherein said pre-defined amount is between
2 approximately 0% and approximately 15% of said voice power limit.

18. The method of claim 14 wherein said step of adding said voice noise
2 power comprises a step of transmitting an orthogonally coded voice noise.

19. The method of claim 14 wherein said step of inserting said pre-
2 determined amount of said data noise comprises a step of transmitting an orthogonally
coded data noise.

20. The method of claim 14 wherein said step of adding said voice noise
2 power comprises a step of transmitting a PN coded voice noise.

21. The method of claim 14 wherein said step of inserting said pre-determined amount of said data noise comprises a step of transmitting a PN coded data noise.

22. A method comprising the steps of:

adding a voice noise power to an aggregate voice power such that a total of said voice noise power and said aggregate voice power is substantially equal to a voice power limit;

inserting a pre-determined amount of data noise after transmission of a data burst so as to maintain power consumed by data transmission at a desired level;

adjusting said voice power limit by a pre-defined amount during said data transmission.

23. The method of claim 22 wherein said adjusting step comprises a step of increasing said desired level by a pre-determined amount during said data transmission.

24. The method of claim 22 wherein said adjusting step comprises a step of decreasing said desired level by a pre-determined amount during said data transmission.

25. The method of claim 23 wherein said pre-determined amount is between approximately 0% and approximately 15% of said voice power limit.

26. The method of claim 24 wherein said pre-determined amount is between

2 approximately 0% and approximately 15% of said voice power limit.

27. The method of claim 22 wherein said step of adding said voice noise

2 power comprises a step of transmitting an orthogonally coded voice noise.

28. The method of claim 22 wherein said step of inserting said pre-

2 determined amount of said data noise comprises a step of transmitting an orthogonally coded data noise.

29. The method of claim 22 wherein said step of adding said voice noise

power comprises a step of transmitting a PN coded voice noise.

30. The method of claim 22 wherein said step of inserting said pre-

determined amount of said data noise comprises a step of transmitting a PN coded data noise.

31. A method comprising the steps of:

2 adding a voice noise power to an aggregate voice power such that a total of
said voice noise power and said aggregate voice power is substantially equal to a
4 voice power limit;

inserting a first amount of data noise after transmission of a data burst so as to

6 maintain a total data transmission power at a first level;

adjusting said voice power limit by a first pre-determined amount during said

8 data transmission;

inserting a second amount of data noise following said first amount of data
noise so as to reduce a total data transmission power to a second level, wherein said
second level is less than said first level by a second pre-determined amount.

32. The method of claim 31 wherein said first pre-determined amount is
between approximately 0% and approximately 15% of said voice power limit.

33. The method of claim 31 wherein said second pre-determined amount is
between approximately 0% and approximately 15% of said voice power limit.

34. The method of claim 31 wherein said step of adding said voice noise
power comprises a step of transmitting an orthogonally coded voice noise.

35. The method of claim 31 wherein said step of inserting said pre-
determined amount of said data noise comprises a step of transmitting an orthogonally
coded data noise.

36. The method of claim 31 wherein said step of adding said voice noise
power comprises a step of transmitting a PN coded voice noise.

37. The method of claim 31 wherein said step of inserting said pre-
determined amount of said data noise comprises a step of transmitting a PN coded
data noise.

38. A method comprising the steps of:

2 adjusting a voice power limit by a first pre-determined amount in response to a
change in usage;

4 adding a voice noise power to an aggregate voice power such that a total of
said voice noise power and said aggregate voice power is substantially equal to said
6 voice power limit;

inserting a first amount of data noise after transmission of a data burst so as to
8 maintain a total data transmission power at a first level;

inserting a second amount of data noise following said first amount of data
10 noise subject to a condition relating an amount of data transmitted in said data burst to
said first amount of data noise so as to adjust said total data transmission power to a
12 second level, wherein said second level differs from said first level by a second pre-
determined amount.

39. The method of claim 38 wherein said adjusting said voice power limit
comprises increasing said voice power limit by said first pre-determined amount when
said usage increases.

40. The method of claim 38 wherein said adjusting said voice power limit
2 comprises decreasing said voice power limit by said first pre-determined amount
when said usage decreases.

41. The method of claim 38 wherein said condition relating an amount of
2 data transmitted in said data burst to said first amount of data noise is that said amount
of data transmitted in said data burst comprises at least 95% of said total data
4 transmission power, and wherein said adjusting comprises increasing said total data

transmission power by said second pre-determined amount to said second level.

42. The method of claim 38 wherein said condition relating an amount of data transmitted in said data burst to said first amount of data noise is that said amount of data transmitted in said data burst comprises no more than 50% of said total data transmission power, and wherein said adjusting comprises decreasing said total data transmission power by said second pre-determined amount to said second level.

43. The method of claim 38 wherein said first pre-determined amount is between approximately 0% and approximately 15% of said voice power limit.

44. The method of claim 38 wherein said second pre-determined amount is between approximately 0% and approximately 15% of said voice power limit.